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NIPPON AROCOAT

Product Description:

NIPPON AROCOAT is a two pack, high build coal tar epoxy coating designed for use as a high build protective system on both steel and concrete surfaces. It can be applied up to 200 microns or even thicker in one coat; and is intended for immersion and non-immersion services which require excellent protection against fresh and salt water, abrasion and splashes of corrosive chemicals.

Recommended Uses:

For aggressive environment including marine installation, pipeline, ballast tank, sewage treatment plant, refineries, chemical plants, etc.

Physical Characteristics of Paint:		
Colour	:	Black and Brown
Texture	:	Semi-Gloss
Specific gravity	:	1.20 - 1.35 (for mixture of base and hardener)
Solid Content	:	80 ± 3% by volume (ASTM D2697 1973)
Recommended No. Of Coats	:	1 - 3 coats.
Recommended Film Thickness Per Coat	:	80 ~ 200 microns for dry film 100 ~ 250 microns for wet film
Theoretical Coverage At Recommended Film Thickness	:	10.0 m²/litre(for dry film thickness of 80 microns)4.0 m²/litre(for dry film thickness of 200 microns)
		Theoretical Coverage = Volume Solids (%) X 10(m²/litre)Dry Film Thickness (μ)
Practical Coverage (20% Loss Factor)	:	8.0 m²/litre(for dry film thickness of 80 microns)3.2 m²/litre(for dry film thickness of 200 microns)

Note: This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator etc. when estimating quantities required for a particular job.

General Properties:	
Adhesion Corrosion Resistance	 Good to blast cleaned steel or abraded concrete. Outstanding resistance to corrosion in aggressive industrial and marine environments.
Immersion Properties	: Excellent immersion properties up to 60°C.
Chemical Resistance	: Resistant to a wide range of industrial chemicals and effluents.
Curing	: Excellent low temperature cure.

Surface Prep	paration:	
Steel :	For optimum performance, abrasive blasting in accordance to Sa 2½ ISO 8501-1:1988 is desirable. If blasting is not possible, mechanical cleaning to St 3 ISO 8501-1:1988 is essential. The surface must be dry and free from any abrasive residues, dirt, oil and grease and other contaminants prior to painting.	
Concrete :	For optimum performance, light abrasive blasting is best to remove all previous coatings and chalk. If blasting is not possible, new and uncoated concrete surface must be etched with approximately 5% phosphoric acid solution. It should then be rinsed thoroughly with clean water and allow drying off completely prior to painting.	
Application	Methods : Brush, roller, compressed air spray and airless spray. Preferably use airless spray if a thicker coat is required in one application.	

	use airless spray if a thicker coat is required in one application Brush, roller, compressed air spray generally lead to lower filn thickness, so more applications may be required to obtain the recommended thickness per coat.	
1) Brush/Roller	: Recommended for small areas and touch-up only. Good quality brushes and mohair/ short nap rollers should be used with fur strokes. Avoid rebrushing. Thin up to 10% by volume of SA-13 Thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness.	
2) Spray	: When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.	
Guiding Data For Airless Spray	 Delivery Pressure : 140-170 kg/cm² Tip Size : 0.015"-0.017" Spray Angle : 60 - 70° 	
Thinning	: If necessary, add up to 5% thinner by volume for application by brush, roller and airless spray; about 10%-15% by volume for application by compressed air spray.	
Mixing Ratio	85 parts by volume of Nippon Arocoat (Base) to 15 parts by volume of Nippon Arocoat (Hardener) . Stir the content of the Base component, continue stirring and gradually add the tota contents of the Hardener component, continue stirring until a homogeneous mix is obtained.	
Pot Life at 25°C to 30°C	: 6 – 8 hours after mixing	
Thinner	: SA-18 Thinner	
Cleaning Solvent	: SA-18 Thinner	
Note: All equipment should be cleaned IMMEDIATELY with thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether expressed or implied.		

- 16-24 hours Dry to handle Dry to overcoat - Minimum 16 hours : 7 davs Curing Time at 25°C ~ 30°C Note: Drying time will become remarkably delayed under low temperature.. Overcoating the previous coat of Nippon Arocoat should be done within 6 ~ 7 days but preferably as soon as possible after it has been allowed 16 hours drying. In case of longer intervals than 7 days, the coated surface should be roughened by a wirebrush or sand paper to have better adhesion. Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. When chalking occurs, chalks should be removed by water washing. Allow the surface to dry thoroughly prior to overcoating. • 5 litres (4 litres Base, 1 litre Hardener) 20 litres (16 litres Base, 4 litres Hardener) 2 years **Environmental Conditions During Application:** Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point. Do not apply at temperature below 7°C. If not, drying and overcoating times will be considerably During application of the paint, naked flame, welding operations and smoking should not be allowed and adequate ventilation should be provided. Remove to fresh air, loosen collar and keep patient rested.

- 1-2 hours

Safety, Health and Environmental Information:

Drying Time at 25°C ~ 30°C

Standard Packing

extended.

Shelf Life

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2.

3.

- 1. In the wet state, this product is highly inflammable. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- 2. Keep away from sources of ignition. No smoking.
- Keep container tightly closed and keep out of reach from children. 3.

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Drv to touch

- 4 Do not breathe vapour/spray. Applying paint to large surface areas under closed environment should use air supplied breathing equipment. For small areas or short periods, a suitable cartridge mask should be worn.
 - Inhalation ٠
 - Ingestion In case of accidental ingestion. DO NOT INDUCE VOMITING. Seek immediate medical attention.
- 5. Avoid contact with skin and eyes. Wear suitable protective coating such as overalls, goggles, dust masks and gloves. Use a barrier cream.
 - Eyes In the event of accidental splashes, flush eyes with water immediately : and obtain medical advice.
 - Skin Wash skin thoroughly with soap and water or approved industrial · cleaner. DO NOT USE solvent or thinners.
- Care must be taken when transporting paint. Keep container in a secure upright position. 6.
- 7. Do not empty into drains or watercourses. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.

Note: A Chemical Safety Data Sheet (CSDS) is available upon request.

NOTE:

Do not overcoat Nippon Arocoat with any oil-based paint as bleeding may occur.

The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the accuracy of our information or the suitability of our products in any given condition.

We reserve the right to alter the given data without notice.

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